

The background is a warm, golden-brown abstract composition. On the left, a glowing wireframe globe is visible. On the right, a computer keyboard is shown in a similar glowing, ethereal style. A bright, starburst-like light emanates from the center, creating a sense of energy and focus.

GIS

Starting from Scratch

Presented by:

Bryce Hirschman

BARTLETT & WEST

SERVICE, THE BARTLETT & WEST WAY.

Background

- Education – NWMSU
 - B.S. Wildlife Ecology & Conservation, Geography minor with emphasis in GIS
- Experience – 14 years in GIS
 - Technician to Coordinator; private sector and municipal government
- Awards – GIS Coordination (MAGIC), Special Achievement in GIS (ESRI Enterprise GIS category)

Getting Started

- Champions
- Committees
 - Steering
 - Technical
- Staff
- Money
- Web search

“GIS Development Guide”

Needs Assessment

- GIS Applications
 - What the GIS is expected to do – maps, queries, reports, analysis
- GIS Activity
 - Job activities or processes that are important to users
- GIS Data
 - What exists and what needs to be developed

System Architecture Planning

- Infrastructure
 - Network
 - Servers
 - Workstations
- Mobile devices
 - Laptops
 - PDA
 - Phones
- Data models

Hardware and Software Acquisition

- Software will have a preference for hardware
 - Software determination should be a result of multiple evaluations
 - Hardware recommendations by software companies
- GPS – buy, lease or hire done

Hardware and Software Acquisition, cont.

- Don't forget maintenance cycles
- Rule of thumb - buy the best components or systems you can afford
 - Better geoprocessing power
 - More time between machine replacements

Data Development

- Download
- Cooperative agreements
- Buy
- Build
- Combination of some or all

Application Development

- What is needed?
 - Point & click
 - Queries
 - Reports
 - Models
- Factors to consider
 - Database joins
 - Access to external data sources
- Web?

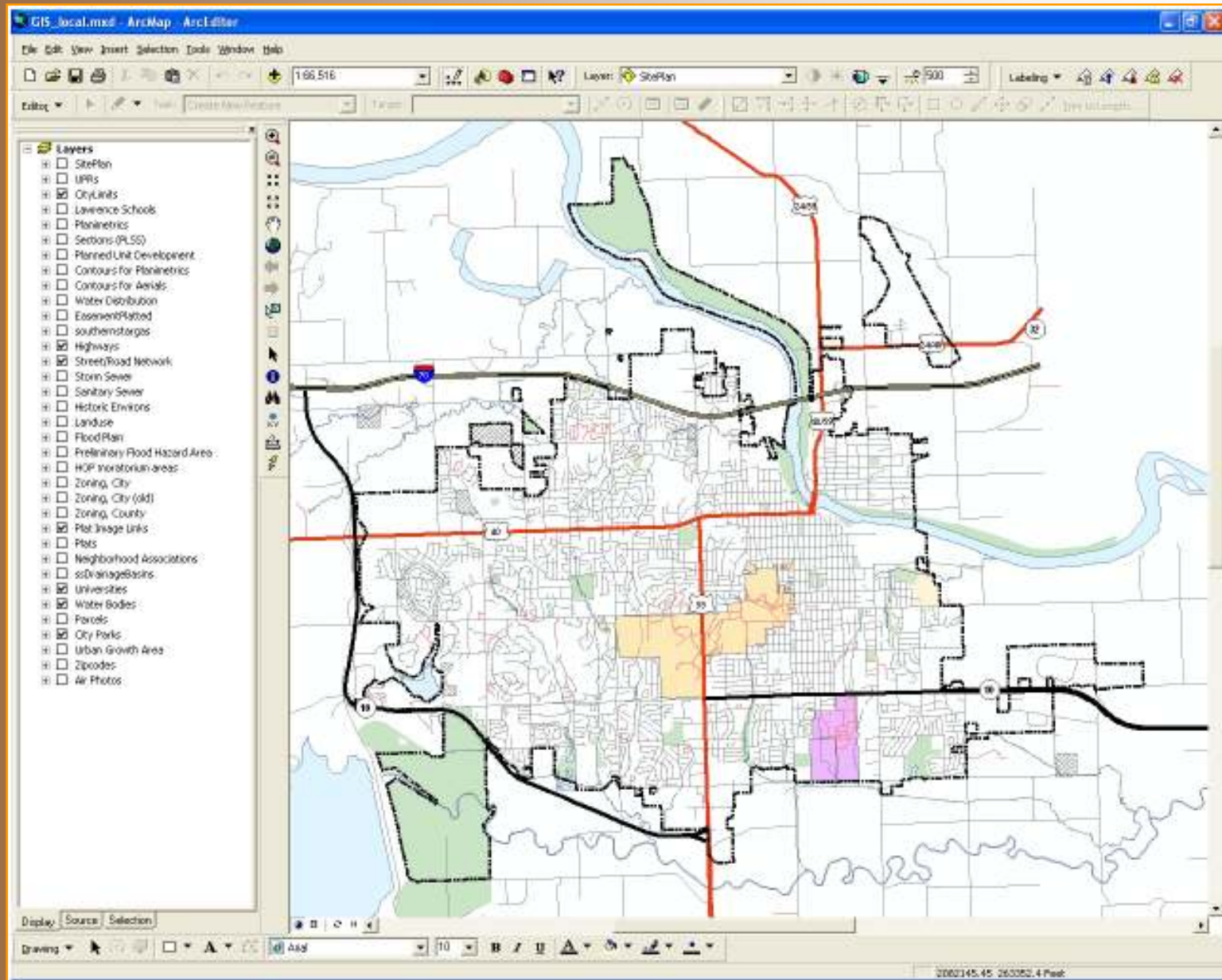
Implementation

- Everything is in place
- Template/seed projects
- Deployment

Data Maintenance Planning

- What?
- When?
- By whom?

Working Example



Summary

- Needs Assessment
- System Architecture Planning
- Hardware & Software Acquisition
- Data Development
- Application Development
- Implementation
- Data Maintenance Planning

Thank You

Contact Info

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